Fall 2013 Levee Maintenance Deficiency Summary Report Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin

RD0827 Reclamation District No. 0827 Elkhorn	Overall LMA Rating	Total LMA Miles							
	U	4.19			l		Design 8	System	
Rated Item			nce Deficiancy			ement	Obsole	Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles	
Earthen Levee Vegetation	2.76		2.76	65.87%			1		
Encroachments	2.70		2.70	03.07 %	0.52				
	0.01		0.01	0.240/	0.52				
Slope Stability	0.01		0.01	0.24%				0.00	
Cracking	0.77	0.00	0.77	00.110/	0.50	0.00	0.00	0.02	
LMA Totals:	2.77	0.00	2.77	66.11%	0.52	0.00	0.00	0.02	
Unit No. 01 Sacramento River RB	Overall Unit Rating	Total Unit Miles							
RD0827	Α	1.35							
		Maintena	nce Deficiancy					k System scence	
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles	
No Items									
Unit Totals:	0.00	0.00	0.00	0.00%					
Unit No. 02 Yolo Bypass LB	Overall Unit Rating	Total Unit Miles							
RD0827	U	2.84							
		Maintenance Deficiancy		Enforcement		Design & System Obsolescence			
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles	
Earthen Levee							I		
Vegetation	2.76		2.76	97.18%					
Encroachments		_			0.52				
Slope Stability	0.01		0.01	0.35%					
Cracking								0.02	
Unit Totals:	2.77	0.00	2.77	97.54%	0.52	0.00	0.00	0.02	

LMA District Cover Sheet

Fall 2013 Levee Inspection Results

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)				
* Overall LMA Rating (Fall Only)			U					
	** Non-receipt of Su	ımmer or Winter Inspe	ection Reports may effec	ct overall annual rating				
* SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall. FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indiction of risk.								
comments								

Unit Cover Sheet

Fall 2013 Levee Inspection Results

Reclamation District No. 0827 Elkhorn

	Waterway	Bank	Unit Miles
ſ	Unit No. 01 Sacramento River	Right	1.35

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			Α	
Date of Inspection	-		10/31/2013 - 10/31/2013	
DWR Inspector	John Williamson		John Williamson	
Accompanied By	Dan Ramos Ramco, RD 827		Dan Ramos Ramco, RD 827	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

http://cdec.water.ca.gov/lma.html

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0827 Elkhorn

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	1.35	10/31/2013 10/31/2013	John Williamson

LMR	Levee		Category	Item	Rating ** + Location *	Action/Comment	GPS Latitude		Issue No.
No.	Start	End			on +		Start	End	Photo
1			Earthen Levee	Operations & Maintenance Manuals	WS A Ma		0	0	5
							DWR ID: DWR_RD0	827_01_s _ 2013_	_5
2			Earthen Levee	Emergency Supplies & Equipment	WS A		0	0	7
							DWR ID: DWR_RD0	827_01_s _ 2013_	_7
3			Earthen Levee	Flood Preparedness & Training	WS A Ma		0 0	0	9
_							DWR ID: DWR_RD0	827_01_s _ 2013_	_9
4	0.01	1.32	Earthen Levee	Vegetation	WS A Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	38.675090 ° -121.630283 ° -1 DWR ID: DWR_RD0		1 Y _1
5	0.27	0.27	Earthen Levee	Erosion / Bank Caving	WS C Ma	E2 : Schedule repair of erosion site prior to the next inspection.	38.672436 ° -121.626851 ° -1 DWR ID: DWR_RD0		3_3
6	0.31	0.37	Earthen Levee	Trim / Thin Trees		T2 : Thin trees to allow visibility of the ground and room to flood fight.	38.671959 ° -121.626305 ° -1 DWR ID: DWR_RD0		Υ
7	0.37	0.37	Earthen Levee	Animal Control	LS C Ma	A1 : Exterminate rodents and backfill and compact or grout burrows.	38.671200 ° -121.625835 ° -1 DWR ID: DWR_RD0	21.625835°	
8	0.54	0.54	Earthen Levee	Trim / Thin Trees	LS N Ma	T5 : Tree stumps.	38.669445 ° -121.623574 ° -1 DWR ID: DWR_RD0		13 Y _13
9	0.61	0.92	Earthen Levee	Vegetation	WSA/W Ma	V8 : Environmental Requirements.	38.668873 ° -121.622513 ° -1 DWR ID: DWR_RD0		22 Y _22
10	0.65	0.65	Earthen Levee	Erosion / Bank Caving	LS C Ma	E1 : Note and monitor erosion site.	38.668459 ° -121.622350 ° -1 DWR ID: DWR_RD0		11 _11
11	0.90	0.90	Earthen Levee	Encroachments	LS C En	PR : Prunings	38.665823 ° -121.619047 ° -1 DWR ID: DWR_RD0		
12	0.92	1.33	Earthen Levee	Vegetation	WSA/W Ma	V7 : Trees / Woody Vegetation	38.665777 ° -121.618523 ° -1 DWR ID: DWR_RD0		Υ

* Location LS : Land Side WS : Water Side CR : Crown ** Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0827 Elkhorn

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	1.35	10/31/2013 10/31/2013	John Williamson

Levee Mile Report Line	4
Start Levee Mile	0.01
End Levee Mile	1.32
Location	Water Side
Category	Earthen Levee
Item	Vegetation
No unwanted vegetation levee slope. Fall 2013	blocking visibility of the

Levee Mile Report Line	6
Start Levee Mile	0.31
End Levee Mile	0.37
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees
This is a second at a second as a second	reterede Fell 2011

Thick vegetation on the waterside. Fall 2011

johngw_f_20131021_583.jpg

johngw_f_20131104_285.JPG

Levee Mile Report Line	8
Start Levee Mile	0.54
End Levee Mile	0.54
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees
A tree stump on the level	e slone Photo fall 2012







* Location	
LS : Land Side	
WS : Water Side	
OD - O	

johngw_f_20131021_591.jpg

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+ Issue Type
Ma : Mainter

Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0827 Elkhorn

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	1.35	10/31/2013 10/31/2013	John Williamson

9					
0.61					
0.92					
Water Side					
Earthen Levee					
Vegetation					
Revegetaion site with fencing, irrigation and stakes to hold netting. Photo taken spring 2012.					

johngw_f_20131021_592.jpg

Levee Mile Report Line	9			
Start Levee Mile	0.61			
End Levee Mile	0.92			
Location	Water Side			
Category	Earthen Levee			
Item	Vegetation			
Dovestation site enring 2012				

Revegetation site spring 2012.

johngw_f_20131021_593.jpg

Levee Mile Report Line	9			
Start Levee Mile	0.61			
End Levee Mile	0.92			
Location	Water Side			
Category	Earthen Levee			
Item	Vegetation			
The revegetation site has grown and blocks visibility. Spring 2013				

johngw_f_20131021_594.JPG







Location LS: Land Side WS : Water Side CR : Crown Rating

M : Minimally Acceptable U : Unacceptable

N : Not Inspected/Rated : Corrected : Acceptable but Monitor & Maintain

+ Issue Type

Ma: Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Fall 2013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	1.35	10/31/2013 10/31/2013	John Williamson

12				
0.92				
1.33				
Water Side				
Earthen Levee				
Vegetation				
Trees on the very wide waterside berm. Photo taken spring 2012.				
johngw_f_20131021_595.jpg				



Unit Cover Sheet

Fall 2013 Levee Inspection Results

Reclamation District No. 0827 Elkhorn

Waterway	Bank	Unit Miles
Unit No. 02 Yolo Bypass	Left	2.84

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	-		10/31/2013 - 11/25/2013	
DWR Inspector	John Williamson		John Williamson	
Accompanied By	Dan Ramos Ramco		Dan Ramos Ramco	

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Levee Inspection Report By Mile - Fall 2013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass	Left	2.84	10/31/2013 11/25/2013	John Williamson

LMR No.	Levee	Mile	Category	Item	** + Location	Action/Comment	GPS Latitude/Longitude Issue No. Start End Photo
1	0.01	0.53	Earthen Levee	Encroachments	LS M	DT : Ditch	38.676440 ° 38.669401 ° 2 -121.642747 ° -121.641417 ° Y DWR ID: DWR_RD0827_02_f_2012_2
2	0.02	2.78	Earthen Levee	Vegetation	LS M	V1 : Control annual grass and weeds on the levee slopes and easements.	38.676470 ° 38.641780 ° 6 -121.642745 ° -121.620784 ° Y DWR ID: DWR_RD0827_02_f_2013_6
3	0.11	0.11	Earthen Levee	Trim / Thin Trees	CR N	T5 : Tree stumps.	38.675236 ° 38.675236 ° 4 -121.642985 ° -121.642985 ° Y DWR ID: DWR_RD0827_02_s_2012_4
4	0.33	2.78	Earthen Levee	Vegetation	WS A	V1 : Control annual grass and weeds on the levee slopes and easements.	38.672221 ° 38.641780 ° 7 -121.642244 ° -121.620784 ° Y DWR ID: DWR_RD0827_02_f2013_7
5	1.55	1.55	Earthen Levee	Cracking	CR U	CR1 : Monitor and have inspected by geotechnical engineer.	38.657402 ° 38.657402 ° 1 -121.631145 ° -121.631145 ° Y DWR ID: DWR_RD0827_02_f2013_1
6	2.14	2.14	Earthen Levee	Cracking	CR U	CR1 : Monitor and have inspected by geotechnical engineer.	38.649993 ° 38.649993 ° 5 -121.625860 ° -121.625860 ° Y DWR ID: DWR_RD0827_02_f_2013_5
7	2.31	2.31	Earthen Levee	Slope Stability	LS M Ma	S1 : Repair slope instability. Inspector Comments: There is cracking along the levee slope not greater than 200 feet. Need to monitor.	38.647703 ° 38.647703 ° 24 -121.624450 ° -121.624450 ° Y

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0827 Elkhorn

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass	Left	2.84	10/31/2013 11/25/2013	John Williamson

Levee Mile Report Line	1			
Start Levee Mile	0.01			
End Levee Mile	0.53			
Location	Land Side			
Category	Earthen Levee			
Item	Encroachments			
Ditch runs along the landside toe. Photo fall 2012.				

johngw_f_20131021_596.jpg

Levee Mile Report Line	2
Start Levee Mile	0.02
End Levee Mile	2.78
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Tall grasses and weeds block visibility of the levee slope. Fall 2013

johngw_f_20131126_350.JPG

Levee Mile Report Line	3	
Start Levee Mile	0.11	
End Levee Mile	0.11	
Location	Crown	
Category	Earthen Levee	
Item	Trim / Thin Trees	
A trace of common and the classes of a collabora Diseate fall		

A tree stump on the levee shoulder. Photo fall 2012.

johngw_f_20131021_598.jpg







* Location

LS: Land Side

WS: Water Side

CR: Crown

** Rating

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+ Issue Type

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Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0827 Elkhorn

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass	Left	2.84	10/31/2013 11/25/2013	John Williamson

Levee Mile Report Line	4	
Start Levee Mile	Start Levee Mile 0.33	
End Levee Mile	2.78	
Location Water Side		
Category Earthen Levee		
Item Vegetation		
The levee has good visibility of the slope. Grasses and weeds have been grazed. Fall 2013		

johngw_f_20131126_351.JPG

Levee Mile Report Line	5
Start Levee Mile	1.55
End Levee Mile	1.55
Location	Crown
Category	Earthen Levee
Item	Cracking

A crack along the shoulder is 12 inches deep and runs for 20 feet. Fall 2013

johngw_f_20131104_286.JPG

Levee Mile Report Line	6
Start Levee Mile	2.14
End Levee Mile	2.14
Location	Crown
Category	Earthen Levee
Item	Cracking

The crack is 4-6 inches wide and 3 feet deep with a length of 6 feet. Fall 2013

johngw_f_20131104_287.JPG







Location LS: Land Side WS : Water Side CR : Crown

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Ma: Maintenance Deficiancy Ob: Design & System Obsolescence En: Enforcement

Levee Inspection Report By Mile - Fall 2013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass	Left	2.84	10/31/2013 11/25/2013	John Williamson

Levee Mile Report Line	7	
Start Levee Mile	2.31	
End Levee Mile	2.31	
Location	Land Side	
Category	Earthen Levee	
Item	Slope Stability	
A buldge in the levee slope. Photo fall 2012.		
johngw_f_20131021_600.jpg		

